

What is claimed is:

- 1 1. An building article having a smooth, low-gloss surface by (1) impregnating
2 a lignocellulosic material with an isocyanate resin material; (2) removing excess
3 isocyanate resin from the impregnated lignocellulosic material by impinging air at
4 a high flow rate upon the impregnated lignocellulosic material; (3) polymerizing
5 the resin by applying water to the impregnated lignocellulosic material, the water
6 being at a temperature sufficient for polymerization; and (4) removing the water
7 from the polymerized resin-impregnated lignocellulosic material.
- 1 2. The building article of claim 1, wherein the impregnated lignocellulosic
2 material is substantially non-conductive.
- 1 3. The building article of claim 1, wherein the lignocellulosic material
2 comprises material selected from the group consisting of medium density
3 fiberboard, high density fiberboard, oriented strand board, particle board, hemp,
4 sisal, cotton stalk, wheat, straw, bamboo, jute, salt water reeds, palm fronds,
5 flax, groundnut shells, hard woods and soft woods.
- 1 4. The building article of claim 1, wherein the building article comprises a
2 veneer, sheet or panel.

1 5. The building article of claim 1, wherein the building article comprises a
2 building component.

1 6. The building article of claim 5, wherein the building component comprises
2 a door component.

1 7. The building article of claim 5, wherein the building component comprises
2 a subfloor component.

1 8. The building article of claim 5, wherein the building component comprises
2 a roofing substrate component.

1 9. The building article of claim 5, wherein the building component comprises
2 a soffit component.

1 10. The building article of claim 5, wherein the building component is adapted
2 for marine construction.

1 11. The building article of claim 1, wherein the building article comprises a
2 fence component.

1 12. The building article of claim 1, wherein the building article comprises a
2 recreational equipment component.

1 13. The building article of claim 1, wherein the building article comprises a
2 component of a sign.

1 14. The building article of claim 1, wherein the building article comprises
2 furniture.

1 15. An article comprising a lignocellulosic substrate impregnated with a
2 polyisocyanate material, said impregnated lignocellulosic substrate being
3 substantially non-conductive.

1 16. The article of claim 15, wherein the impregnated lignocellulosic substrate
2 comprises a smooth, low-gloss surface.

1 17. The article of claim 15, wherein the impregnated lignocellulosic substrate
2 further exhibits increased strength over an un-impregnated lignocellulosic
3 substrate.

1 18. The article of claim 15, wherein the impregnated lignocellulosic substrate
2 further exhibits an increased resistance to water over an un-impregnated
3 lignocellulosic substrate.

1 19. The article of claim 15, wherein the lignocellulosic substrate comprises
2 material selected from the group consisting of medium density fiberboard, high
3 density fiberboard, oriented strand board, particle board, hemp, sisal, cotton
4 stalk, wheat, straw, bamboo, jute, salt water reeds, palm fronds, flax, groundnut
5 shells, hard woods and soft woods.

1 20. The article of claim 15, wherein the polyisocyanate material comprises
2 methylene diphenyl diisocyanate or poly(methylene diphenyl diisocyanate).

1 21. The article of claim 15, wherein the polyisocyanate material comprises
2 polyisocyanate resin.

1 22. The article of claim 15, wherein the lignocellulosic substrate comprises a
2 veneer, sheet or panel.

1 23. The article of claim 15, wherein the article comprises a building
2 component.

1 24. The article of claim 23, wherein the building component comprises a door
2 component.

1 25. The article of claim 23, wherein the building component comprises a
2 subfloor component.

1 26. The article of claim 23, wherein the building component is adapted for
2 marine construction.

1 27. The article of claim 23, wherein the building component comprises a soffit
2 component.

1 28. The article of claim 23, wherein the building component comprises a
2 roofing substrate component.

1 29. The article of claim 15, wherein the article comprises a fence component.

1 30. The article of claim 15, wherein the article comprises a recreational
2 equipment component.

1 31. The article of claim 15, wherein the article comprises a component of a
2 sign.

- 1 32. The article of claim 15, wherein the article comprises a furniture
- 2 component.